

# First Year Results of the Wisconsin Clean Marina Program

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- Basic components of the Wisconsin Clean Marina Program
- Overview of Clean Marina practices required for certification
- First year results – accomplishments and hurdles



# States with Clean Marina Programs

## Northeast

- Connecticut
- Maine
- Massachusetts
- New Hampshire
- Rhode Island

## Mid-Atlantic

- Washington D.C.
- Delaware
- Maryland
- New Jersey
- Virginia
- New York

## Southeast

- Florida
- Georgia
- North Carolina
- South Carolina

## Gulf of Mexico

- Alabama
- Louisiana
- Texas

## Interior

- TVA
- Cumberland R. Basin
- Colorado

## Great Lakes

- Indiana
- Michigan
- Ohio
- Pennsylvania
- Wisconsin (New)
- Minnesota (TBD)
- Illinois (TBD)

## West Coast

- California
- Oregon
- Washington

## Islands

- Virgin Islands

# Guidance, Training, Onsite Technical Assistance and Boater Education

## *Best Management Practices*

- Steps taken to prevent/reduce pollution from marina activities and related nonpoint sources
- Achievable through the application of technologies, processes, siting criteria, operating methods, product selection or other practices



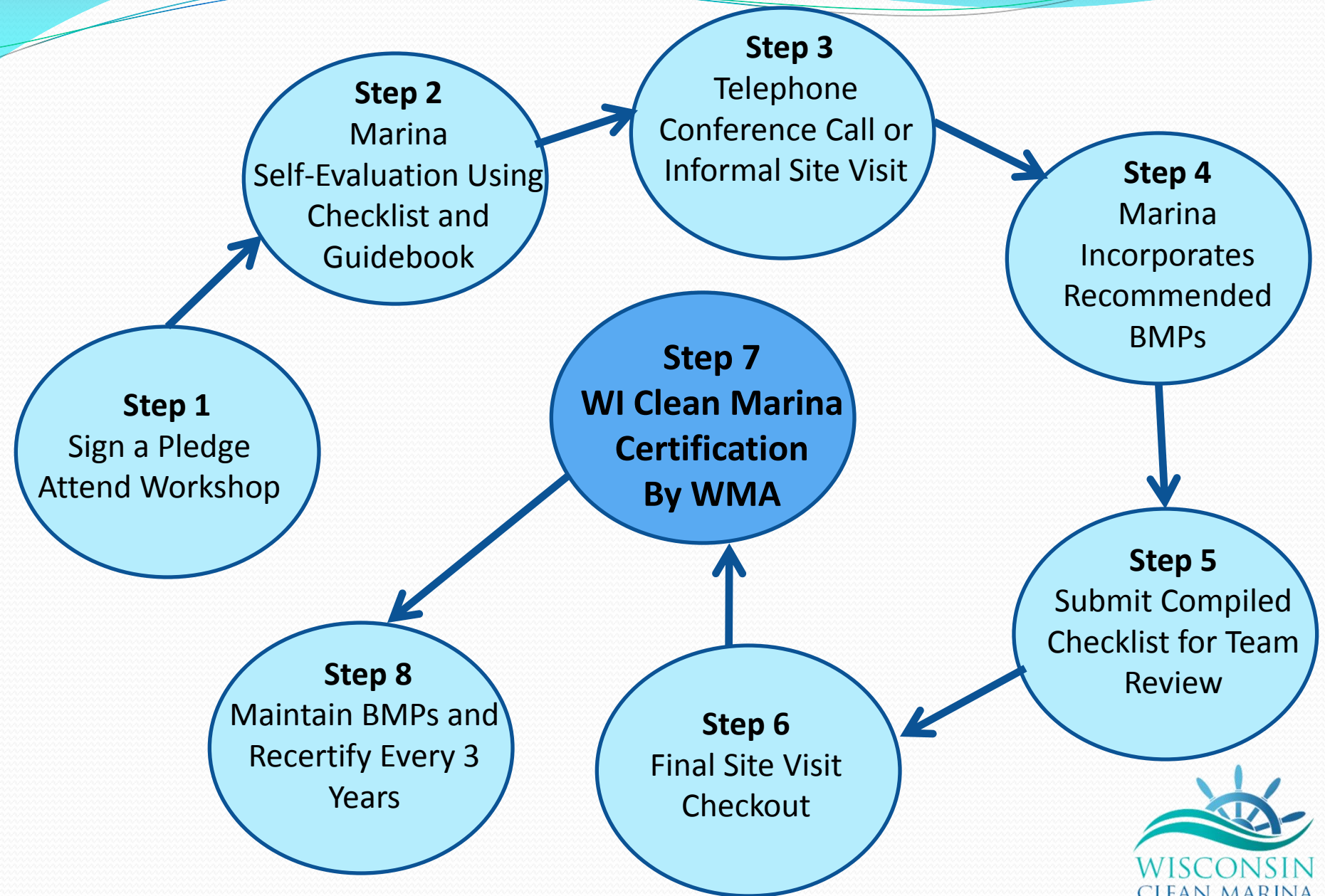
*Photo Courtesy Visit Milwaukee*



# Wisconsin Clean Marina Partners

- Wisconsin Marina Association
- UW Sea Grant Institute
- Wisconsin Coastal Management Program (2008 & 2010 grant support)
- UW-Extension Solid and Hazardous Waste Center
- Wisconsin Dept. Natural Resources-Office of Great Lakes
- U.S. EPA
- U.S. Coast Guard





# WI Clean Marina Guidebook

[www.wisconsincleanmarina.org](http://www.wisconsincleanmarina.org)

- Certification Process and Forms
- Best Management Practices
  - Siting Considerations for New and Expanding Marinas
  - Marina Design and Maintenance
  - Stormwater Management
  - Vessel Maintenance and Repair
  - Petroleum Control
  - Sewage Handling
  - Waste Containment and Disposal
  - Marina Management
- Laws and Regulations
- Clean Boater Tip Sheets
- Appendices (Sample SPCC, SWPPP, Emergency Response Plans)



# Siting Considerations

Section only applies to **new and expanding** marinas

- Redevelop existing sites, such as brownfields
- Characterize project site. Identify habitat types, local nearshore processes and be sure that any environmental contamination has been cleaned-up.
- Identify any rare and endangered species
- Minimize disturbance to wetlands
- Avoid critical migration, nesting, and spawning periods
- Maintain proper water movement
- Stormwater drainage and infiltration

*Hammond Marina, IN*





# Marina Design and Maintenance

- Piers and other structures should enhance, not obstruct water circulation
- Select and an open design
- Minimize the need and impacts of dredging
- Use environmentally neutral materials
- Use upland and inland areas, and expand upward
- Water conservation, landscaping, and integrated pest management
- Help control AIS



*Photo from Michigan Sea Grant*



# Habitat Enhancement



*South Bay Marina, by Dave Wentland*



*Gene Clark, Wisconsin Sea Grant*

- Maintain and/or develop vegetated areas
- Soften/buffer shorelines (most older facilities have completely hardened shores)
- Create new or expand habitats in the marina basin
- Headlands, captive beaches, wetlands
- Fish spawning stone



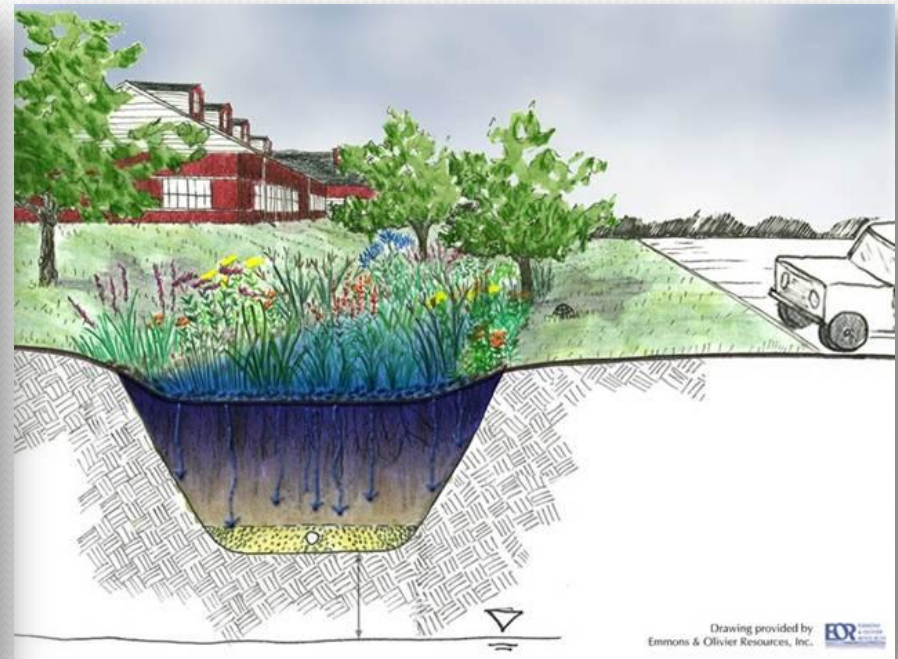
# Stormwater Management

- NPDES Permit and SWPPP
- Stormwater Information Map (available on clean marina web site)
  - Facility site plan showing runoff paths and potential contamination sources
  - BMPs to treat or decrease amount of pollutants
- BMPs to Control Stormwater Runoff
  - Capture and treat stormwater on site
  - Minimize the amount of impervious surface
  - Use structural controls as necessary
  - Use soil erosion control practices during construction
  - Stencil storm drains



# Stormwater Management

- Most marinas not treating stormwater on site (rain barrels, rain gardens, infiltration basins recommended)
- Several had large impervious surfaces (older facilities)
- Some upgrading paved areas and onsite treatment





# Vessel Maintenance and Repair



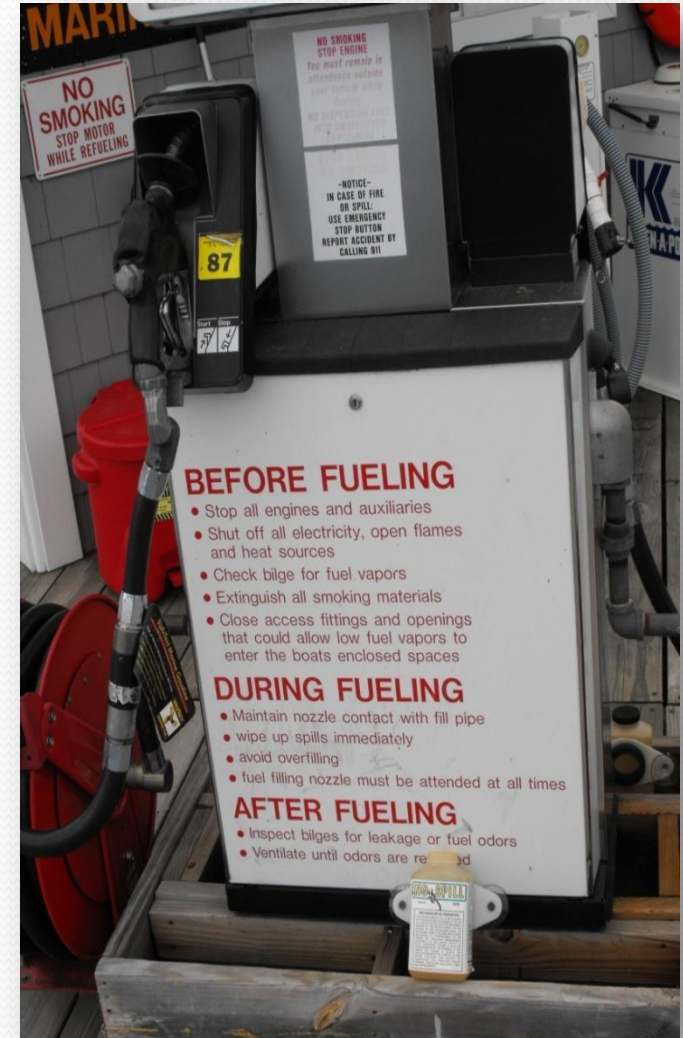
- Designate work areas away from water
- Contain dust from sanding - use vacuum sanders, collect debris
- Antifouling paints
- Annual license and test for certified pesticide applicators
- Prohibit anti-freeze blow-out
- Wash boats on land; use env. friendly cleaners
- Capture and treat pressure wash water (NPDES permit)

*Photos: U.S. EPA Clean Marinas/Clear Value and Jay Tanski, New York Sea Grant*



# Petroleum Control

- Need to **have/show** inspection records indicating compliance with petroleum storage requirements
- Supervise fueling; always have a trained employee at the fuel dock
- Install environmental controls at the pump
- Advocate the use of oil absorbent materials



*Gene Clark, Wisconsin Sea Grant*

# Petroleum Control

- Be prepared for spills, even if no fuel dock
- Minimum boom is 3X length of largest boat
- Prepare a SPCC plan
- Develop emergency response plans
- Review plans and train employees well



*Gene Clark, Wisconsin Sea Grant*



# Sewage Handling

- Well-maintained pump-outs including a wand for porta-potties
- Prohibit sewage discharge as lease agreement condition
- Provide facilities for “live-aboards”
- WI re-examining NDZ exceptions (Lake Superior, Miss. and St. Croix Rivers)



*Vicky Harris, Wisconsin Sea Grant*



*Gene Clark, Wisconsin Sea Grant*

# Waste Containment and Disposal



- Reduce waste (less waste means lower recycling and disposal costs)
- Provide fish cleaning stations
- Recycle shrink wrap



*Vicky Harris, WI Sea Grant  
and Indiana Clean Marina Guidebook*

# Waste Containment and Disposal

- Minimize the use of hazardous products
- Recycle liquid waste
- Separate containers for used oil, antifreeze and solvents
- Store indoors or under cover in area capable of containing 100% of largest container and 10% of total liquids



*Gene Clark, Wisconsin Sea Grant*



# Marina Management

- Annual Staff Training (seasonal employees)
  - SWPPP, SPCC, fueling procedures, emergency response plans, how to approach polluters, MSDS
  - **We review all training records @ checkout!**
  - Most didn't provide routine staff training or keep logs – **Easy Fix!**
- Inform Patrons and Independent Contractors
  - **Incorporate BMPs into contracts**
  - Post signs detailing BMPs



# Boater Education & Outreach

- Clean Boater tip sheets
- Marina & WMA newsletters
- Training for members/patrons
- Presentations to boating and fishing clubs
- Boat launch inspectors for AIS



# Easiest BMPs to Implement

*2009 National Clean Marina Survey and 2011 WMA Survey*

- Sewage pump-outs
- Recycling waste, used oil
- Signage
- Record keeping
- SPCC and emergency response plans
- Oil spill response kits and absorbents
- Pet waste disposal (Mutt Mitts, dog walks)



*Gene Clark, Wisconsin Sea Grant*



# Most Difficult/Needed BMPs

*2009 National Clean Marina Survey and 2011 WMA Survey*

- Pressure wash water treatment and discharge permit
- Educating patrons to follow rules
- Stormwater permits and BMPs
- Hazardous waste containment
- Antifreeze collection
- Fish cleaning stations
- Pesticide applicator license
- Judging how much petroleum release is reportable



*Jay Tanski, New York Sea Grant*



*Vicky Harris, Wisconsin Sea Grant*

# Wisconsin Certification Criteria

- 100% of Mandatory practices (**M=25**)
- 100% of Clean Marina Program Required practices (**P=43**)
- 50% of Program Recommended practices (**R=17 of 34**)

Numbers adjusted for N/A's and “extra credits”





# Wisconsin Program Progress

- 55 marinas joined WMA
- 6 training workshops attended by > 65 marinas
- 30 onsite inspections
- 17 certified Clean Marinas
- 9 additional marinas pledged
- 401 BMPs adopted or modified by certified marinas
- Each marina implemented between 16-36 new BMPs



# Clear Benefits for Marinas

*2009 National Clean Marina Survey and 2011 WMA Survey*

- Improved water quality and aesthetics
- Reduced waste disposal costs
- Reduced environmental risk liability and offers for reduced marina insurance premiums
- Free publicity for participating marinas
- Attract new customers willing to pay more to be in a “Clean Marina”
- Enhanced property value and salability
- **Currently Free** technical assistance and guidance (Other states often charge \$100's )



# Questions ?

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**WI Clean Marina Website:**  
**[www.wisconsincleanmarina.org](http://www.wisconsincleanmarina.org)**

**WMA website:**  
**[www.wisconsinmarinas.org](http://www.wisconsinmarinas.org)**

